### WILLIAM M. EWING, CIH Compass Environmental, Inc. 1751 McCollum Parkway Kennesaw, Georgia 30144

#### Education

B.S., Biology, Washington and Lee University Courses in Management, Statistics, Technology and Science Policy (University of Michigan, Georgia State, Georgia Tech)	1978 1978-1988
Short courses in industrial hygiene, toxicology, indoor air quality environmental site assessments, asbestos evaluation and control	1978-Present
Employment History	
Compass Environmental, Inc.	1993-Present
Technical Director	
Diagnostic Engineering Inc.	1990-1993
Regional Technical Director	
The Environmental Management Group, Inc.	1987-1990
Executive Vice President	
Georgia Tech Research Institute	1981-1987

1978-1981

### Experience Summary

Research Associate II

Industrial Hygienist

Clayton Environmental Consultants, Inc.

Mr. Ewing is currently the Technical Director for Compass Environmental, Inc. In this capacity he serves as project manager for industrial hygiene, indoor air quality, and environmental site assessments. His technical responsibilities include project design, execution and report development for private and government project sponsors. He is also responsible for research studies, preparation of papers and publications, and quality assurance. He was the Executive Vice President of The Environmental Management Group, Inc. (TEMG) prior to its acquisition by Diagnostic Engineering Inc. (DEI), where he served as Regional Technical Director. While at the Georgia Tech Research Institute (GTRI) he started the industrial hygiene laboratory, instituted the hazardous waste program for small business in Georgia, and served as an industrial hygienist under the 7(c)(1) program, sponsored by the Occupational Safety and Health Administration (OSHA). As Director of the Asbestos Programs Group, he conducted training, technical assistance, and research on asbestos in buildings, under the sponsorship of the U.S. Environmental Protection Agency (USEPA).

During the past 20 years Mr. Ewing has conducted numerous industrial hygiene, asbestos management, and indoor air quality studies. In the field of industrial hygiene he has conducted over 200 field investigations including textile mills, foundries, steel mills, health care facilities, chemical plants, and manufacturing operations. Among the indoor air quality projects, his experience includes office settings, hospitals, and studies involving off-gassing of volatile compounds from products. He has served as a consultant to the Centers for Disease Control (CDC) on airborne microbial contamination, and is currently a consultant to the U.S. Public Health Service. He is currently a consultant to the Georgia Building Authority where he conducts IAQ investigations and authored the State of Georgia IAQ manual. Since 1980, he has conducted environmental assessments for property owners, developers, mortgage bankers, and insurance companies. In the field of asbestos management and control, he has conducted surveys of over 1200 facilities, including commercial office buildings, schools, hospitals, ships, industrial plants, and government facilities.

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During the past 15 years, Mr. Ewing has frequently directed or lectured in training courses sponsored by universities, government agencies, and private interests. Topics have included respiratory protection, asbestos identification, evaluation, management, and control, advanced microscopy, polychlorinated biphenyls (PCBs), air pollution, industrial hygiene, and indoor air quality. He has directed over 50 courses and lectured in over 200 others throughout the continental United States, Alaska, Canada, and Europe.

Mr. Ewing participated in the site assessment of the aircraft carrier USS Lexington and development of its environmental management plan prior to its opening as a naval history museum. Much of this work involved PCBs, lead-based paint and asbestos identification and management. Mr. Ewing was responsible for preparing the Safety, Health and Emergency Response Plan (SHERP) and Contractor's Chemical Quality Control Program (CCQCP) for the fire site clean-up at Ft. Huachuca, Arizona. He has also conducted several studies related to flood or fire remediation in commercial and industrial facilities. Since 1988, he has participated in a series of studies designed to evaluate episodic exposures resulting from maintenance and custodial activities in buildings containing asbestos.

Certifications American Board of Industrial Hygiene (ABIH)	1983
Certified Industrial Hygienist, Comprehensive Practice	
(Certificate No. 2627, Recertified 1990, 1995, 2002)	
Indoor Environmental Quality Sub-specialty Exam	1993
Inspector, pursuant to USEPA Asbestos Hazard Emergency Response Act (AHERA) regulations (40 CFR 763, Subpart E, Appendix C), Certificate No. 092, Georgia Institute of Technology; Current Certificate No. 3756-A, The Environmental Institute	1987-Present
Management Planner, pursuant to USEPA AHERA regulations, Certificate No. 083, Georgia Institute of Technology; Current Certificate No. 3756-A, The Environmental Institute	1987-Present
Project Designer, pursuant to USEPA AHERA regulations, Certificate No. 1438, The Environmental Institute; Current Certificate No. 1278-A, The Environmental Institute	1989-Present
Project Supervisor, pursuant to USEPA AHERA regulations,	1987-Present
Certificate No. 3400, Georgia Institute of Technology;	1,0,110,011
Current Certificate No. 3891-A, The Environmental Institute	
State of Florida, Department of Professional Regulation, Licensed Industrial Hygienist/Asbestos Consultant (No. IA 0000003)	1989-Present
Awards and Honors	
Georgia Tech Research Institute Award for Outstanding	1983
Performance in Program Development	
Commissioned Lieutenant Colonel, Aide de Camp, Governor's Staff	1985
by Governor Joe Frank Harris (State of Georgia)	
National Asbestos Council, President's Award Recipient	1987
National Asbestos Council, Outstanding Achievement Award	1988
Environmental Information Association, President's Award	1993
Elected Fellow Member Status, American Industrial Hygiene Association	1995

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## Memberships

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American Industrial Hygiene Association (AIHA) American Industrial Hygiene Association, Georgia Local Section American Academy of Industrial Hygiene (AAIH) American Conference of Governmental Industrial Hygienists(ACGIH) American Society for Testing and Materials (ASTM) Environmental Information Association (EIA) International Society for Indoor Air Quality National Asbestos Council (NAC) National Institute for Building Sciences (NIBS) New York Academy of Sciences (NYAS)	1978-Present 1979-Present 1980-Present 1992-Present 1992-Present 1992-Present 1993-Present 1982-1992 1988-Present 1987-Present
Offices Held	
Environmental Information Association Georgia Chapter President	1997-1998
American Industrial Hygiene Association Secretary, Georgia Local Section	1985-1986
Environmental Information Association Treasurer	1992-1993
National Asbestos Council Board of Directors Secretary Treasurer	1984-1986, 1988-1991 1982-1983 1986-1987
Committees	
American Industrial Hygiene Association Air Pollution Committee Asbestos Task Force Indoor Environmental Quality Committee Chair Member/Corresponding member Chair, Regulatory Affairs Committee Policy, Standards & Guidelines Committee Secretary	1983-1984 1985 1984-1986 1985-1986 1992-Present 1995-1998 1998-2002 2002
International Council for Building Research Studies and Documentation Task Group for Dissemination of Indoor Air Sciences	1998-Present
National Asbestos Council Sampling and Analytical Committee Professional Registration Committee Publications Committee Conference Committee, Chair of Professional Development Courses San Antonio and Phoenix Conferences	1984-1986 1988-1990 1983-1990 1989-1990
National Institute for Building Sciences Asbestos Task Force Model Specifications Peer Review Committee (asbestos) Lead Based Paint Model O&M Manual Project Reviewer	1985-1988 1988-1992, 1994-1996 1994

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U.S. Environmental Protection Agency (USEPA) Asbestos NESHAP External Advisory Committee Evaluation of Asbestos Control Technologies (Peer Review) AHERA Regulatory Negotiation Committee, Invited Technical Advisor Policy Dialogue on Asbestos in Public and Commercial Buildings, Co-chair of Technical Working Group	1985-1986 1985-1987 1987 1989-1990
Publication Peer Review (USEPA)  "Measuring Airborne Asbestos Following An Abatement Action"  Publication No. EPA 600/4-85-049 (November 1985)	1984-1985
"Guidelines for Conducting the AHERA Clearance Test to Determine Completion of an Asbestos Abatement Project" (1989)	1987-1988
"Guidance for Preventing Asbestos Disease Among Auto Mechanics," Publication No. EPA-560-OPTS-86-002 (June 1986)	1985-1986
"Interim Procedures and Practices for Asbestos Abatement Projects," Publication No. EPA 560/1-85-002 (June 1985)	1984-1985
National Institute for Occupational Safety and Health (NIOSH) Publication Peer Review	
"A Guide to Respiratory Protection for the Asbestos Abatement Industry," Publication No. NIOSH/EPA 560-OPTS-86-001 (September 1986)	1985-1986
"An Evaluation of Glove Bag Containment in Asbestos Removal," Publication No. DHHS(NIOSH) 90-119 (October 1990)	1987-1988
Department of the Navy, Naval Facilities Engineering Command Publication Peer Review	
"Removal and Disposal of Asbestos Materials," NAVFAC Guide Specification NFGS-02080 (May 1985)	1985
Asbestos Monitor	
Editorial Review Board	1988-1993
City of New York, Department of Environmental Protection (NYC/EPD) Expert Advisory Board	1987-1988
American Society for Testing and Materials (ASTM)	
D22 Committee on Sampling and Analysis of Atmospheres	1992-Present
D22.07 Asbestos	1992-Present
E-6 Performance of Buildings Subcommittee 23, Lead Hazard Abatement	1994-Present
Health Effects Institute (HEI) Research Advisory Committee	1988-1989
Environmental Information Association (EIA)	1000 D
Editorial Review Board (Peer Reviewer)	1992-Present 1992-1998
Asbestos Committee (Co-Chair)	1998-2000
Building Owners and Managers Association Asbestos Committee	1987-1989

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US Army Corps of Engineers, Facilities Engineering Support Agency Publication Peer Review

1984-1985

"Asbestos Management and Control Handbook," TRADOC, Ft. Monroe, VA

### Papers and Formal Presentations

"Formaldehyde Testing in New and Occupied Mobile Homes," paper presented at the University of Texas, Austin, TX, February 1982.

"Air Sampling at 52 Asbestos Abatement Projects," paper presented at the American Industrial Hygiene Conference, Philadelphia, PA, May 1983.

"Use of Chloride-Containing Aerosol for Source Recognition During an Indoor Air Quality Contamination," with W.H. Spain, A.A. Block, and W.A. Orenstein; paper presented at the American Industrial Hygiene Conference, Detroit, MI, May 1984.

"Health Issues and Legal Aspects of Asbestos Exposure in Buildings," <u>Strategic Planning for Cogeneration and Energy Management: Proceedings of the 8th World Energy Engineering Congress</u>, Atlanta, GA, with E. Clay and W.H. Spain, 1985.

"Determining Emissions from Negative Air Machines During Asbestos Abatement Projects," with E. Clay W.H. Spain and J. Hubbard, paper presented at the 1985 American Industrial Hygiene Conference, Las Vegas, NV, May 1985.

"Field Testing of High Efficiency Respirator Filters Against Airborne Asbestos Fibers," with E. Clay, W.H. Spain, and J. Hubbard, paper presented at the 1985 American Industrial Hygiene Conference, Las Vegas, NV, May 1985.

"Asbestos Abatement Disposal Techniques and Airborne Exposures for Contractor Personnel," with W.H. Spain and E. Clay, paper presented at the 1985 American Industrial Hygiene Conference, Las Vegas, NV, May 1985.

"Asbestos Policy During the Carter Administration," paper presented at the Jimmy Carter Presidential Library, Atlanta, GA, May 1987.

"Asbestos Exposure During and Following Cable Installation in the Vicinity of Fireproofing," with J. Chesson, T. Dawson, et al., paper presented at the 1991 American Industrial Hygiene Conference, Salt Lake City, UT, May 1991.

"An Investigation of Airborne Asbestos Concentrations During Custodial and Maintenance Activities in a Boiler Room," with E. Ewing, S. Hays, et al., paper presented at the 1992 American Industrial Hygiene Conference, Boston, MA, June 1992.

"An Equation to Express the Decay of Airborne Chrysotile Concentrations," with J. Millette and D. Keyes, poster paper presented at the Health Effects Institute - Asbestos Research Operations and Maintenance Workshop, Cambridge, MA, March 1993.

"Baseline Studies of Asbestos Exposure During O&M Activities," with D. Keyes, S. Hays, et al., paper presented at the Health Effects Institute - Asbestos Research Operations and Maintenance Workshop, Cambridge, MA, March 1993.

"Libby...A Historical Perspective," ASTM 2002 Johnson Conference, Johnson State College, Johnson, VT, July 21-25, 2002

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"Asbestos in Settled Dust Concentrations Outdoors in New York City Before September 11, 2001," ASTM 2002 Johnson Conference, Johnson State College, Johnson, VT, July 21-25, 2002

### **Publications**

Ewing, W.M., "Clearance Sampling and the Fiber Counting Method," National Asbestos Council Newsletter, Vol. 1, No. 2 (June 1983).

Ewing, W.M. and W.H. Spain, "Getting to the Very Fiber of Industrial Asbestos Removal," Occupational Health and Safety, Vol. 53, No. 6 (June 1984).

Spain, W.H., W.M.Ewing, and E.M. Clay, "Knowledge of Causes, Controls and Prevention of Heat Stress," *Occupational Health and Safety*, Vol. 54, No. 4 (April 1985).

Clay, E.M., W.H. Spain, and W.M. Ewing, "Health and Safety Needs Detailed in New Asbestos Abatement Survey," *Occupational Health and Safety*, Vol. 54, No. 8 (August 1985).

Block, A.B., W.A. Orenstein, W.M. Ewing, et al., "Measles Outbreak in a Pediatric Practice: Airborne Transmission in an Office Setting," *Pediatrics*, Vol. 75, No. 4 (April 1985).

Clay, E.M., M. Demyanek, W.M. Ewing, and W.H. Spain, "Protective Clothing: Its Necessity and Use," *National Asbestos Council Journal*, Vol. 2, No. 2 (1985).

Ewing, W.M., "History, Implementation and Evaluation of the Asbestos School Hazard Detection and Control Act of 1980," *National Asbestos Council Journal*, Vol. 4, No. 2 (1986).

Spain, W.H., E.M. Clay, W.M. Ewing, and M. Demyanek, "Protective Clothing, A Worthwhile Precaution for Asbestos Workers," *Occupational Health and Safety*, Vol. 55, No. 8 (August 1986).

Ewing, W.M. and D. W. Mayer, "Final AHERA Regulations Released by the EPA," National Asbestos Council Journal, Vol. 5, No. 4 (1987).

Ewing, W.M. and D.W. Mayer, "Under Final AHERA Rule, Schools Must Inspect For, Control Asbestos," *Occupational Health and Safety News Digest*, Vol. 4, No. 1 (January 1988).

Spain, W.H., E.M. Clay, and W.M. Ewing, "Special Problems with Respirators for Asbestos Abatement," *ECON*, Vol. 3, No. 9 (September 1988).

Clay, E.M., W.H. Spain, and W.M. Ewing, "Local and State Regulations Becoming More Specific for Glovebag Procedures," Asbestos Issues (September 1988).

Spain, W.H., W.M. Ewing, and N.P. Wickware, "Asbestos Floor Tile Removal," Asbestos Issues, Vol. 2, No. 9 (September 1989).

Hutton, M.D., W.W. Stead, G.M. Cauthen, A.B. Block, and W.M. Ewing, "Nosocomial Transmission of Tuberculosis Associated With a Draining Abscess," *Journal of Infectious Disease*, Vol 161 (February 1990).

Millette, J.R., W.M. Ewing, and R. Brown, "Stepping on Asbestos Debris," *Microscope*, Vol. 38, pp. 321-326 (1990).

Millette, J.R., R. Brown, and W.M. Ewing, "A Close Examination of Asbestos-Containing Debris," *National Asbestos Council Journal*, pp. 38-40 (Fall 1990).

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Keyes, D.L., J. Chesson, W.M. Ewing, et al., "Exposure to Airborne Asbestos Associated with Simulated Cable Installation Above A Suspended Ceiling," American Industrial Hygiene Association Journal, Vol. 52 (November 1991).

Keyes, D.L., J. Chesson, S.M. Hays, R.L. Hatfield, W.M. Ewing, et al., "Re-entrainment of Asbestos From Dust in a Building with Acoustical Plaster," *Environmental Choices Technical Supplement*, Vol 1, No. 1 (1992).

Ewing, W.M., J. Chesson, T. Dawson, et al., "Asbestos Exposure During and Following Cable Installation In the Vicinity of Fireproofing," *Environmental Choices Technical Supplement*, Vol. 2, No. 1 (1993).

Ewing, W.M., "ASTM Sponsors Boulder Conference on Lead," *Environmental Choices*, Vol. 2, No. 5 (1993).

Keyes, D.L., W.M. Ewing, et al., "Baseline Studies of Asbestos Exposure During Operations and Maintenance Activities," Appl. Occup. Environ. Hyg., Vol 9, No. 11 (1994).

Ewing, W.M., T.A. Dawson, G.P. Alber, "Observations of Settled Asbestos Dust in Buildings," *EIA Technical Journal*, Vol. 4, No. 1 (July 1996).

Ewing, W.M., et al., Georgia Building Authority Indoor Air Quality Manual, Georgia Building Authority, Atlanta, GA (May 1997).

Ewing, W.M., "Further Observations of Settled Asbestos Dust in Buildings," in *Advances in Environmental Measurements for* Asbestos by M.E. Beard and H. L. Rook (Editors) ASTM Publication STP 1342, West Conshohocken, PA (1999), pp. 323-332.

Ewing, W.M., et al., Lead Hazard Evaluation and Control in Buildings, ISBN 0-8031-2086-9, ASTM Stock Number MNL38, ASTM, West Conshohocken, PA (2000)

#### **Book Reviews**

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Thomas, J.D.R. (editor), <u>Ion-Selective Reviews</u> (Vol. 1, No. 1), *American Industrial Hygiene Association Journal*, Vol. 42, No.4 (April 1981).

National Council on Radiation Protection and Measurements, <u>Quantitative Risk in Standard Setting</u>, American Industrial Hygiene Association Journal, Vol. 43, No. 2 (February 1982).

State Planning Council (Washington, DC), The Interim Report of the State Planning Council on Radioactive Waste Management, American Industrial Hygiene Association Journal, Vol. 43, No. 1 (January 1982).

American Conference of Governmental Industrial Hygienists, <u>Advances in Air Sampling</u>, *American Industrial Hygiene Association Journal*, Vol. 50, No. 5 (May 1989).

Revised March 17, 2003

## DEPOSITION LIST FOR WILLIAM M. EWING, CIH 1998-2003

DATE	CASE NAME	JURISDICTION	CASE NUMBER
1998	Schwab v. AC&S, et al.	Illinois Circuit Court, Tazewall County, IL	96 L 105
1998	Salem Community Hospital v. W.R. Grace & Co., et al.	Cleveland, Ohio	Not known
1998	Norma I. Maysonet Robles, et al. V. United States Gysum Co.	Puerto Rico	97-1035(DRD)
1998	Chemical Bank v. Stanley Stahl	New York State Supreme Court	103367/04
1998	Leo Hart, et al. V. Abex Corp., et al.	Jackson County Circuit Court, Kansas City, MO	CV97-7137
1999	Deborah L. Balandron-Carnahan v. Copaken, White & Blitt, et al.	Jackson County Circuit Court; Kansas City, MO	98-CV-12771
1999	Charles & Shirlene Hicks v. Raybestos- Manhattan, Inc., et al.	Superior Court, County of San Francisco, CA	999242
1999	Kenneth & Edna Kugelman v. Asbestos Defendants (BHC)	San Francisco Superior Court	990559
1999	Ernest Valerio & Doris Valerio v. A&M Insulation Co., et al.	Circuit Court; Grundy County, IL	99 L 12
1999	John Smithgall, et al. v. Associated Environmental, Inc.	Fulton County State Court; Atlanta, GA	96VS-0116626
1999	Sheldon Solow, et al. v. W.R. Grace & Co., et al.	U.S. District Court, New York	Not known
1999	State of Hawaii v. W.R. Grace & Co., et al.	U.S. District Court, Honolulu, HI	93-4161-10
1999	Pennsylvania Dept. of General Services, et al. v. U.S. Mineral Products Co., et al.	Commonwealth Court of Pennsylvania Philadelphia, PA	284 MD 1990
2000	Sterets, et al. v. Raybestos-Manhattan, Inc. et al.	San Francisco Superior Court	Not known
2000	Port Authority of New York & New Jersey v. Affiliated FM Insurance	U.S. District Court for the Northern District of New Jersey	91-2907
2000	Lanora G. Satterfield, et al. v. AC&S, et al.	Circuit Court of Lawrence County, IL	99-L-11 99-L-6
2000	Mark Lewis & Shirley Hackett v. Raybestos-Manhattan, Inc., et al.	Superior Court, County of San Francisco, CA	320036
2000	Dorothy S. Jones v. AC & S, et al.	Circuit Court of Milwaukee County, WI	99-CV-3542
2001	Marilyn Thornberry, et al. v. AC&S, et al.	Circuit Court of Cook County, IL	99-L-6180
2001	Thomas L. Srenaski, Jr. v. Allied Signal, Inc., et al.	State of Wisconsin Circuit Court; Door County	99 CV 080
2001	James Castor v. Raybestos-Manhattan, Inc., et al.	Superior Court, County of San Francisco, CA	320036
2001	David Taylor & Susan Taylor v. Raybestos-Manhattan, Inc., et al.	Superior Court, County of San Francisco, CA	320278
2001	George Green, et al. v. Dayco, et al.	North Carolina Industrial Commission	047397
2001	Cigna v. Didimoi Property Holdings, N.V., et al.	Pennsylvania (Philadelphia)	00-186-IJF
2001	Polly Burns & Brad Burns v. Raybestos- Manhattan, Inc., et al.	Superior Court, County of San Francisco, CA	320774
2001	Donna Hansen v. Raybestos-Manhattan, Inc., et al.	Superior Court, County of San Francisco, CA	321639 .

2001	Don Lee Henderson and Marlene Henderson v. A C and S, et al.	Superior Court, County of Alameda, CA	843027-6
2001	Marvin Boede, et al. v. Wisconsin Electric Power Company, et al.	Milwaukee County Circuit Court, WI	98-CV-006561
2001	Lois A. Smerker, et al v. A & M Insulation Co., et al.	Circuit Court of Will County, IL	99 L 686
2002	In RE: Asbestos Personal Injury Litigation – West Virginia	Circuit Court of Kanawha County, WV	01-C-9002
2002	State of Illinois v. United States Gypsum, et al.	Circuit Court of Sangamon County, IL	98-L-0061
2002	Several personal injury (mesothelioma) cases	Superior Court, County of San Francisco, CA	Not known
2002	Armstrong Bankruptcy (Illinois, LAUSD)	Federal Bankruptcy Court, Delaware	Not known
2002	Lucy Choate v. ? (personal injury- mesothelioma)	New Orleans, LA	Not known

Updated March 18, 2003

# TRIAL LIST FOR WILLIAM M. EWING, CIH 1998-2003

DATE	CASE NAME	JURISDICTION	CASE NUMBER
1998	James C. Westberry & Connie R. Westberry v. Mataki Kemi, AB & Gislaved Gummi, AB	U.S. District Court, Anderson, SC	97-562-13
1998	Port Authority of New York & New Jersey v. Allied Corp., et al.	U.S. District Court for the Southern District of New York	91 CIV 0310
1999	Kenneth & Edna Kugelman v. Asbestos Defendants (BHC)	San Francisco Superior Court	990559
1999	Charles & Shirlene Hicks v. Raybestos- Manhattan, Inc., et al.	County of San Francisco Superior Court	999242
1999	Pennsylvania Dept. of General Services, et al. v. U.S. Mineral Products Co., et al.	Commonwealth Court of Pennsylvania; Philadelphia, PA	284 MD 1990
2000	Public Service Building v. Pacific Gas & Electric Co.	State of Oregon, Portland, OR	Not known
2000	Mark Lewis & Shirley Hackett v. Raybestos-Manhattan, Inc., et al.	County of San Francisco Superior Court	306774
2000	Sterets, et al. v.	County of San Francisco Superior Court	Not known
2001	Marvin Boede, et al. v. Wisconsin Electric Power Co., et al.	Circuit Court, County of Milwaukee, WI	98-CV-006561
2001	David Taylor and Susan Taylor v. Raybestos-Manhattan, et al.	County of San Francisco Superior Court	320278
2001	Don Lee Henderson and Marlene Henderson v. A C and S, et al.	Superior Court, County of Alameda, CA	843027-6
2002	Marvin Boede, et al. v. Wisconsin Electric Power Company, et al.	Milwaukee County Circuit Court, WI	98-CV-006561
2002	In RE: Asbestos Personal Injury Litigation – West Virginia	Circuit Court of Kanawha County, WV	01-C-9002